

CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application. Where claims have been amended and/or canceled, such amendments and/or cancellations are done without prejudice and/or waiver and/or disclaimer, and the applicant reserves the right to claim this subject matter in a continuing application:

1. -29. (Canceled)

30. (Currently amended) An optical chassis, comprising:

a shell body having ~~an accommodation space defining~~ a plurality of inside walls defining an accommodation space;

a plurality of reflection planes, each of the reflection planes formed on a corresponding one of the inside walls and covering only at least a portion of the ~~plurality of~~ corresponding inside walls; ~~and~~

~~one or more~~ a reflective plating films directly ~~coated~~ formed on at least a portion of each of the plurality of reflection planes to reflect light; ~~and~~

wherein the reflective plating film is not formed on at least some portions of the plurality of inside walls.

31. (Currently amended) The optical chassis of claim 30, ~~and~~ further comprising: a light source coupled to the shell body to transmit light to at least one ~~one or more~~ of the reflection planes.

32. (Previously presented) The optical chassis of claim 30, wherein the optical chassis comprises at least a portion of an optical scanner.

33. (Currently amended) The optical chassis of claim 30, wherein the shell body and the plurality of reflection planes are formed as a single piece.

34. (Currently amended) ~~The optical chassis of claim 30;~~ An optical chassis, comprising: a shell body having an accommodation space defining a plurality of inside walls;

a plurality of reflection planes formed on at least a portion of the plurality of inside walls; one or more reflective plating films directly coated on at least a portion of the plurality of reflection planes to reflect light; and

wherein the shell body further comprises a lid body and a major body, wherein the lid body and the major body are formed as separate pieces and subsequently assembled.

35. (Currently amended) The optical chassis of claim 30, wherein at least two of the plurality of inside walls are substantially opposed, and wherein a at least one of the reflection planes is formed on each of the at least two substantially opposed inside walls.

36. (Currently amended) The optical chassis of claim 30, wherein the ~~one or more reflective~~ plating films comprises at least one selected from the group including one or more of: silver, chromium, aluminum, and ~~and/or~~ platinum, and ~~and/or~~ alloys thereof.

37. (Previously presented) The optical chassis of claim 30, wherein at least a portion of the reflection planes have substantially corresponding angles.

38. (Currently amended) The optical chassis of claim 36, wherein the ~~one or more reflective~~ plating films ~~are further is~~ coated with ~~one or more~~ a protection materials.

39. (Currently amended) The optical chassis of claim 38, wherein the protection materials comprises at least one selected from the group including one or more of: PE plastic films and ~~and/or~~ macromolecular material.

40. (Currently amended) A method of forming an optical chassis, comprising:
forming a shell body ~~to have an accommodation space defining~~ having a plurality of inside walls defining an accommodation space, the shell body configured to mount a lens set within the shell body;

forming a plurality of reflection planes on ~~at least a portion of the plurality~~ respective ones of the inside walls; and

depositing ~~one or more~~ a plating films directly on at least a portion of each of the plurality of reflection planes, ~~said the~~ deposited plating films being capable of reflecting light; and

wherein a thickness of the deposited plating film is relatively greater on the one of the plurality of reflection planes that is optically closest to the lens set.

41. (Currently amended) The method of claim 40, wherein forming ~~said the~~ shell body further comprises forming from at least one selected from the group including one or more of: injection molding, die-casting, squeeze forming, milling, CNC machining, and and/or combinations thereof.

42. (Currently amended) The method of claim 40, ~~and~~ further comprising forming the shell body and the plurality of reflection planes as a single piece.

43. (Currently amended) The method of claim 40, wherein the shell body comprises a lid body and a major body, ~~the method and~~ further comprising:
forming the lid body and the major body as separate pieces; and
assembling ~~said the~~ shell body from ~~said the~~ separate pieces.

44. (Currently amended) The method of claim 40, ~~and~~ further comprising:
forming at least two of the plurality of inside walls to be substantially opposed; and
forming a at least one of the reflection planes on each of the at least two substantially opposed inside walls.

45. (Currently amended) The method of claim 40, wherein ~~said the~~ depositing ~~one or more plating films~~ substantially comprises at least one selected from the group including one or more of: evaporation sputtering, sputtering and and/or chemical deposition.

46. (Currently amended) The method of claim 45, wherein the plating films comprises at least one selected from the group including one or more of: silver, chromium, aluminum, and and/or platinum, and and/or alloys thereof.

47. (Currently amended) The method of claim 40, ~~and~~ further comprising forming ~~one or more~~ a protection materials on at least a portion of the deposited plating films.

48. (Currently amended) The method of claim 47, wherein the protection materials comprises at least one selected from the group including one or more of PE plastic films and and/or macromolecular material.

49. (Previously presented) The method of claim 40, wherein the optical chassis comprises at least a portion of an optical scanner.

50. – 57. (Canceled)

58. (New) An apparatus comprising:
a shell body of an optical scanning chassis having a plurality of inside walls;
a reflection plane formed as a portion less than all of the inside walls and covered with a reflective plating film; and
wherein at least some portions of the plurality of inside walls are not covered with the reflective plating film.

59. (New) The apparatus of claim 58, wherein a particular one of the inside walls and the reflection plane are molded as a single piece.

60. (New) The apparatus of claim 58, wherein at least a portion of the shell body and the reflection plane are formed as a single piece.

61. (New) The apparatus of claim 58, wherein the reflection plane is two or more reflection planes.

62. (New) The apparatus of claim 61,
wherein the shell body is configured to mount a lens set within the shell body, and

wherein the reflection planes are configured so that light entering the shell body is reflected towards the lens set.

63. (New) The apparatus of claim 62, wherein a thickness of the reflective plating film is relatively greater on the one of the reflection planes that is optically closest to the lens set.

64. (New) The method of claim 58, wherein the reflection plane is covered with the reflective plating film by at least one selected from the group including evaporation sputtering, sputtering and chemical deposition.

65. (New) The optical chassis of claim 31, further including a lens set to focus the light reflected by the reflective plating film.